

FIGURE 1: SEQ ID NOS: 1-64

| | |
|-----------------------------------|---------------|
| 5pLMAR2 | |
| TGCCGCCTTCTTTGATATTC | SEQ ID NO: 1 |
| LE-6.1kbrev1 | |
| TTGGTGGTAAGGCCTTTTGG | SEQ ID NO: 2 |
| Lys-6.1 | |
| CTGGCAAGCTGTCAAAAACA | SEQ ID NO: 3 |
| LysElrev | |
| CAGCTCACATCGTCCAAAGA | SEQ ID NO: 4 |
| LYSBSU | |
| CCCCCCCCTAAGGCAGCCAGGGGCAGGAAGCAA | SEQ ID NO: 5 |
| SalItoNotI | |
| TCGAGCGGCCGC | SEQ ID NO: 6 |
| T7 | |
| TAATACGACTCACTATAGGG | SEQ ID NO: 7 |
| lys61enfor1 | |
| CGTGGTGATCAAATCTTTGTG | SEQ ID NO: 8 |
| lys61enrev1 | |
| AGGAGGGCACAGTAGGGATC | SEQ ID NO: 9 |
| 5MARfor1 | |
| GTGGCCTGTGTCTGTGCTT | SEQ ID NO: 10 |
| IFN-3rev | |
| AACTCCTCTTGAGGAAAGCC | SEQ ID NO: 11 |
| lys001rev | |
| TCCTGTTTGGGATGAATGGT | SEQ ID NO: 12 |
| lys002for | |
| CTCTCAGAATGCCCAACTCC | SEQ ID NO: 13 |
| lys003for | |
| TGTATTGGTCTCCCTCCTGC | SEQ ID NO: 14 |
| lys005for | |
| TGTTGAAATTGCAGTGTGGC | SEQ ID NO: 15 |

SEO ID NO: 16

SEO ID NO: 17

SEQ ID NO: 18

SEQ ID NO: 19

SEO ID NO: 20

SEO ID NO: 21

SEO ID NO: 22

SEO ID NO: 23

SEQ ID NO: 24

SEQ ID NO: 25

SEO ID NO: 26

SEO ID NO: 27

SEO ID NO: 28

SEQ ID NO: 29

SEO ID NO: 30

SEQ ID NO: 31

SEQ ID NO: 32

SEQ ID NO: 33

SEQ ID NO: 34

SEQ ID NO: 35

SEQ ID NO: 36

SEQ ID NO: 37

SEQ ID NO: 38

SEQ ID NO: 39

SEQ ID NO: 40

SEQ ID NO: 41

SEQ ID NO: 42

SEQ ID NO: 43

SEQ ID NO: 44

SEQ ID NO: 45

SEQ ID NO: 46

09922549.080301

| | |
|-----------------------------------|---------------|
| lys040rev TGCCATGAAAACCCTACTGA | SEQ ID NO: 47 |
| lys041for GGAATGTACCCTCAGCTCCA | SEQ ID NO: 48 |
| lys042rev CCTCTTTAGGAGGCCAGCTT | SEQ ID NO: 49 |
| lys043rev AAGATGATCAGAGGGCTGGA | SEQ ID NO: 50 |
| lys044rev GCAGCGCTGGTAATCTTCAT | SEQ ID NO: 51 |
| lys045for CTTCAGATCCCAGGAAGTGC | SEQ ID NO: 52 |
| lys046for TTCCTGCCTTACATTCTGGG | SEQ ID NO: 53 |
| lys047for CCCACTGCAGGCTTAGAAAG | SEQ ID NO: 54 |
| lys048for AGTTCTCCATAGCGGCTGAA | SEQ ID NO: 55 |
| lys051for TGCATCCTTCAGCACTTGAG | SEQ ID NO: 56 |
| lys052rev GCAGGAGGGAGACCAATACA | SEQ ID NO: 57 |
| lys053for TGCACAAGGATGTCTGGGTA | SEQ ID NO: 58 |
| lys054for TCCTAGCAACTGCGGATTTT | SEQ ID NO: 59 |
| lys056for TCTTCCATGTTGGTGACAGC | SEQ ID NO: 60 |
| lys058for CCCCCTTGTGCTATCACTGT | SEQ ID NO: 61 |

lys059for
CTGACAGACATCCCAGCTCA

SEQ ID NO: 62

lys060for
AAGTTGTGCTTCTGCGTGTG

SEQ ID NO: 63

lys061for
TTGTTCTGCTGTTCTCCT

SEQ ID NO: 64

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Fig.2

[illegible]

FIGURE 3: SEQ ID NO: 65

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| TGCCGCCTTC | TTTGATATTC | ACTCTGTTGT | ATTTTCATCTC | TTCTTGCCGA | TGAAAGGATA | 60 |
| TAACAGTCTG | TATAACAGTC | TGTGAGGAAA | TACTTGGTAT | TTCTTCTGAT | CAGTGTTTTTT | 120 |
| ATAAGTAATG | TTGAATATTG | GATAAGGCTG | TGTGTCCTTT | GTCTTGGGAG | ACAAAGCCCA | 180 |
| CAGCAGGTGG | TGGTTGGGGT | GGTGGCAGCT | CAGTGACAGG | AGAGGTTTTT | TTGCCTGTTT | 240 |
| TTTTTTTTTT | TTTTTTTTTT | AAGTAAGGTG | TTCTTTTTTC | TTAGTAAATT | TTCTACTGGA | 300 |
| CTGTATGTTT | TGACAGGTCA | GAAACATTTT | TTCAAAAGAA | GAACCTTTTG | GAAACTGTAC | 360 |
| AGCCCTTTTC | TTTCATTCCC | TTTTTGCTTT | CTGTGCCAAT | GCCTTTGGTT | CTGATTGCAT | 420 |
| TATGGAAAAC | GTTGATCGGA | ACTTGAGGTT | TTTATTTATA | GTGTGGCTTG | AAAGCTTGGA | 480 |
| TAGCTGTTGT | TACACGAGAT | ACCTTATTAA | GTTTAGGCCA | GCTTGATGCT | TTATTTTTTTC | 540 |
| CCTTTGAAGT | AGTGAGCGTT | CTCTGGTTTT | TTTCCTTTGA | AACTGGTGAG | GCTTAGATTT | 600 |
| TTCTAATGGG | ATTTTTTACC | TGATGATCTA | GTTGCATACC | CAAATGCTTG | TAAATGTTTT | 660 |
| CCTAGTTAAC | ATGTTGATAA | CTTCGGATTT | ACATGTTGTA | TATACTTGTC | ATCTGTGTTT | 720 |
| CTAGTAAAAA | TATATGGCAT | TTATAGAAAT | ACGTAATTCC | TGATTTTCCTT | TTTTTTTTATC | 780 |
| TCTATGCTCT | GTGTGTACAG | GTCAAACAGA | CTTCACTCCT | ATTTTTATTT | ATAGAATTTT | 840 |
| ATATGCAGTC | TGTCGTTGGT | TCTTGTGTTG | TAAGGATACA | GCCTTAAATT | TCCTAGAGCG | 900 |
| ATGCTCAGTA | AGGCGGGTTG | TCACATGGGT | TCAAATGTAA | AACGGGCACG | TTTGGCTGCT | 960 |
| GCCTTCCCGA | GATCCAGGAC | ACTAACTGC | TTCTGCACTG | AGGTATAAAT | CGCTTCAGAT | 1020 |
| CCCAGGGAAG | TGCAGATCCA | CGTGCAATTT | CTTAAAGAAG | AATGAATACT | TTCTAAAATA | 1080 |
| TTTTGGCATA | GGAAGCAAGC | TGCATGGATT | TGTTTGGGAC | TTAAATTATT | TTGGTAACGG | 1140 |
| AGTGCATAGG | TTTTAAACAC | AGTTGCAGCA | TGCTAACGAG | TCACAGCGTT | TATGCAGAAG | 1200 |
| TGATGCCTGG | ATGCCTGTTG | CAGCTGTTTA | CGGCACTGCC | TTGCAGTGAG | CATTGCAGAT | 1260 |
| AGGGGTGGGG | TGCTTTGTGT | CGTGTTCCTA | CACGCTGCCA | CACAGCCACC | TCCCGGAACA | 1320 |
| CATCTCACCT | GCTGGGTACT | TTTCAAACCA | TCTTAGCAGT | AGTAGATGAG | TTACTATGAA | 1380 |
| ACAGAGAAAGT | TCCTCAGTTG | GATATTCTCA | TGGGATGTCT | TTTTTCCCAT | GTTGGGCAAA | 1440 |
| GTATGATAAA | GCATCTCTAT | TTGTAAATTA | TGCACTTGTT | AGTTCCTGAA | TCCTTTCTAT | 1500 |
| AGCACCACTT | ATTGCAGCAG | GTGTAGGCTC | TGGTGTGGCC | TGTGTCTGTG | CTTCAATCTT | 1560 |
| TTAAAGCTTC | TTTGAAATA | CACTGACTTG | ATTGAAGTCT | CTTGAAGATA | GTAAACAGTA | 1620 |
| CTTACCTTTG | ATCCCAATGA | AATCGAGCAT | TTCAGTTGTA | AAAGAATTCC | GCCTATTTCAT | 1680 |
| ACCATGTAAT | GTAATTTTAC | ACCCCCAGTG | CTGACACTTT | GGAATATATT | CAAGTAATAG | 1740 |
| ACTTTGGCCT | CACCCTCTTG | TGTACTGTAT | TTTGTAATAG | AAAATATTTT | AAACTGTGCA | 1800 |
| TATGATTATT | ACATTATGAA | AGAGACATTC | TGCTGATCTT | CAAATGTAAG | AAAATGAGGA | 1860 |
| GTGCGTGTGC | TTTTATAAAT | ACAAGTGATT | GCAAATTAGT | GCAGGTGTCC | TTAAAAAATA | 1920 |
| AAAAAAAAG | TAATATAAAA | AGGACCAGGT | GTTTTTACAAG | TGAAATACAT | TCCTATTTGG | 1980 |
| TAAACAGTTA | CATTTTTTATG | AAGATTACCA | GCGCTGCTGA | CTTTCTAAAC | ATAAGGCTGT | 2040 |
| ATTGTCTTCC | TGTACCATTG | CATTTCCCTCA | TTCCCAATTT | GCACAAGGAT | GTCTGGGTAA | 2100 |
| ACTATTCAAG | AAATGGCTTT | GAAATACAGC | ATGGGAGCTT | GTCTGAGTTG | GAATGCAGAG | 2160 |
| TTGCACTGCA | AAATGTCAGG | AAATGGATGT | CTCTCAGAAT | GCCCAACTCC | AAAGGATTTT | 2220 |
| ATATGTGTAT | ATAGTAAGCA | GTTTCCTGAT | TCCAGCAGGC | CAAAGAGTCT | GCTGAATGTT | 2280 |
| GTGTTGCCCG | AGACCTGTAT | TTCTCAACAA | GGTAAGATGG | TATCCTAGCA | ACTGCGGATT | 2340 |
| TTAATACATT | TTCAGCAGAA | GTAAGTATTT | AATCTCTACC | TTTAGGGATC | GTTTCATCAT | 2400 |
| TTTTAGATGT | TATACTTGAA | ATACTGCATA | ACTTTTAGCT | TTCATGGGTT | CCTTTTTTTC | 2460 |
| AGCCTTTAGG | AGACTGTTAA | GCAATTTGCT | GTCCAACCTT | TGTGTTGGTC | TTAAACTGCA | 2520 |
| ATAGTAGTTT | ACCTTGATTT | GAAGAAATAA | AGACCATTTT | TATATTAAAA | AATACTTTTG | 2580 |
| TCTGTCTTCA | TTTTGACTTG | TCTGATATCC | TTGCAGTGCC | CATTATGTCA | GTTCTGTCAG | 2640 |
| ATATTCAAG | ATCAAACTT | AACGTGAGCT | CAGTGGAGTT | ACAGCTGCGG | TTTTGATGCT | 2700 |
| GTTATTATTT | CTGAAACTAG | AAATGATGTT | GTCTTCATCT | GCTCATCAAA | CACTTCATGC | 2760 |
| AGAGTGTAAG | GCTAGTGAGA | AATGCATACA | TTTATTGATA | CTTTTTTAAA | GTCAACTTTT | 2820 |
| TATCAGATTT | TTTTTTCATT | TGGAAATATA | TTGTTTTCTA | GACTGCATAG | CTTCTGAATC | 2880 |
| TGAAATGCAG | TCTGATTGGC | ATGAAGAAGC | ACAGCACTCT | TCATCTTACT | TAAACTTCAT | 2940 |
| TTTGGAATGA | AGGAAGTTAA | GCAAGGGCAC | AGGTCCATGA | AATAGAGACA | GTGCGCTCAG | 3000 |
| GAGAAAGTGA | ACCTGGATTT | CTTTGGCTAG | TGTTCTAAAT | CTGTAGTGAG | GAAAGTAACA | 3060 |
| CCCGATTCCCT | TGAAAGGGCT | CCAGCTTTAA | TGCTTCCAAA | TTGAAGGTGG | CAGGCAACTT | 3120 |

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|------------|-------------|-------------|-------------|------------|-------------|------|
| GGCCACTGGT | TATTTACTGC | ATTATGTCTC | AGTTTCGCAG | CTAACCTGGC | TTCTCCACTA | 3180 |
| TTGAGCATGG | ACTATAGCCT | GGCTTCAGAG | GCCAGGTGAA | GGTTGGGATG | GGTGGAAGGA | 3240 |
| GTGCTGGGCT | GTGGCTGGGG | GGACTGTGGG | GACTCCAAGC | TGAGCTTGGG | GTGGGCAGCA | 3300 |
| CAGGGAAAAG | TGTGGGTAAAC | TATTTTTTAAG | TACTGTGTTG | CAAACGTCTC | ATCTGCAAAT | 3360 |
| ACGTAGGGTG | TGTACTCTCG | AAGATTAACA | GTGTGGGTTC | AGTAATATAT | GGATGAATTC | 3420 |
| ACAGTGGAAG | CATTCAAGGG | TAGATCATCT | AACGACACCA | GATCATCAAG | CTATGATTGG | 3480 |
| AAGCGGTATC | AGAAGAGCGA | GGAAGGTAAAG | CAGTCTTCAT | ATGTTTTCCC | TCCACGTAAA | 3540 |
| GCAGTCTGGG | AAAGTAGCAC | CCCTTGAGCA | GAGACAAGGA | AATAATTCAG | GAGCATGTGC | 3600 |
| TAGGAGAACT | TTCTTGCTGA | ATTCTACTTG | CAAGAGCTTT | GATGCCTGGC | TTCTGGTGCC | 3660 |
| TTCTGCAGCA | CCTGCAAGGC | CCAGAGCCTG | TGGTGAGCTG | GAGGGAAAGA | TTCTGCTCAA | 3720 |
| GTCCAAGCTT | CAGCAGGTCA | TTGTCTTTGC | TTCTTCCCCC | AGCACTGTGC | AGCAGAGTGG | 3780 |
| AACTGATGTC | GAAGCCTCCT | GTCCACTACC | TGTTGCTGCA | GGCAGACTGC | TCTCAGAAAA | 3840 |
| AGAGAGCTAA | CTCTATGCCA | TAGTCTGAAG | GTAAATGGG | TTTTAAAAAA | GAAAAACACAA | 3900 |
| AGGCAAAACC | GGCTGCCCCA | TGAGAAGAAA | GCAGTGGTAA | ACATGGTAGA | AAAGGTGCAG | 3960 |
| AAGCCCCCAG | GCAGTGTGAC | AGGCCCTCC | TGCCACCTAG | AGGCGGGAAC | AAGCTTCCCT | 4020 |
| GCCTAGGGCT | CTGCCC CGA | AGTGC GTT | TCTTTGGTGG | GTTTTGTTTG | GCGTTTGTT | 4080 |
| TTGAGATTTA | GACACAAGGG | AAGCCTGAAA | GGAGGTGTTG | GGCACTATTT | TGGTTTGTA | 4140 |
| AGCCTGTACT | TCAAATATAT | ATTTTGTGAG | GGAGTGTAGC | GAATTGGCCA | ATTTAAATA | 4200 |
| AAGTTGCAAG | AGATTGAAGG | CTGAGTAGTT | GAGAGGGTAA | CACGTTAAT | GAGATCTTCT | 4260 |
| GAAACTACTG | CTTCTAAACA | CTTGTTTGAG | TGGTGAGACC | TTGGATAGGT | GAGTGCTCTT | 4320 |
| GTTACATGTC | TGATGCACTT | GCTTGTCCTT | TTCCATCCAC | ATCCATGCAT | TCCACATCCA | 4380 |
| CGCATTTGTC | ACTTATCCCA | TATCTGTCAT | ATCTGACATA | CCTGTCTCTT | CGTCACTTGG | 4440 |
| TCAGAAGAAA | CAGATGTGAT | AATCCCCAGC | CGCCCCAAGT | TTGAGAAGAT | GGCAGTTGCT | 4500 |
| TCTTTCCCTT | TTTCTGCTA | AGTAAGGATT | TTCTCTGGC | TTTGACACCT | CACGAAATAG | 4560 |
| TCTTCTGCC | TTACATTCTG | GGCATTATTT | CAAATATCTT | TGGAGTGCGC | TGCTCTCAAG | 4620 |
| TTTGTGTCTT | CCTACTCTTA | GAGTGAATGC | TCTTAGAGTG | AAAGAGAAGG | AAGAGAAGAT | 4680 |
| GTTGGCCGCA | GTTCTCTGAT | GAACACACCT | CTGAATAATG | GCCAAAGGTG | GGTGGGTTTC | 4740 |
| TCTGAGGAAC | GGGCAGCGTT | TGCCTCTGAA | AGCAAGGAGC | TCTGCGGAGT | TGCAGTTATT | 4800 |
| TTGCAACTGA | TGGTGGAAC | GGTGCTTAAA | GCAGATTCCC | TAGGTTCCCT | GCTACTTCTT | 4860 |
| TTCCTTCTTG | GCAGTCAGTT | TATTTCTGAC | AGACAAACAG | CCACCCCCAC | TGCAGGCTTA | 4920 |
| GAAAGTATGT | GGCTCTGCCT | GGGTGTGTTA | CAGCTCTGCC | CTGGTGAAAG | GGGATTAAAA | 4980 |
| CGGGCACCAT | TCATCCCAAA | CAGGATCCTC | ATTCATGGAT | CAAGCTGTAA | GGAAGTTGGG | 5040 |
| CTCCAACCTC | AAAACATTAA | TTGGAGTACG | AATGTAATTA | AAACTGCATT | CTCGCATTCC | 5100 |
| TAAGTCATTT | AGTCTGGACT | CTGCAGCATG | TAGGTCGGCA | GCTCCCACTT | TCTCAAAGAC | 5160 |
| CACTGATGGA | GGAGTAGTAA | AAATGGAGAC | CGATTTCAGAA | CAACCAACGG | AGTGTTGCCG | 5220 |
| AAGAACTGA | TGGAAATAAT | GCATGAATTG | TGTGGTGAGC | ATTTTTTTTA | AATACATAAA | 5280 |
| CTACTTCAAA | TGAGGTCGGA | GAAGGTCAGT | GTTTTATTAG | CAGCCATAAA | ACCAGGTGAG | 5340 |
| CGAGTACCAT | TTTTCTCTAC | AAGAAAAACG | ATTCTGAGCT | CTGCGTAAGT | ATAAGTTCTC | 5400 |
| CATAGCGGCT | GAAGCTCCCC | CCTGGCTGCC | TGCCATCTCA | GCTGGAGTGC | AGTGCCATTT | 5460 |
| CCTTGGGGTT | TCTCTCACAG | CAGTAATGGG | ACAATACTTC | ACAAAAATTC | TTTCTTTTCC | 5520 |
| TGTCATGTGG | GATCCCTACT | GTGCCCTCCT | GGTTTTACGT | TACCCCTGA | CTGTTCCATT | 5580 |
| CAGCGGTTTG | GAAAGAGAAA | AAGAATTTGG | AAATAAAACA | TGTCTACGTT | ATCACCTCCT | 5640 |
| CCAGCATTTT | GGTTTTTAAT | TATGTCAATA | ACTGGCTTAG | ATTTGGAAAT | GAGAGGGGGT | 5700 |
| TGGGTGTATT | ACCGAGGAAC | AAAGGAAGGC | TTATATAAAC | TCAAGTCTTT | TATTTAGAGA | 5760 |
| ACTGGCAAGC | TGTCAAAAAC | AAAAAGGCCT | TACCACCAAA | TTAAGTGAAT | AGCCGCTATA | 5820 |
| GCCAGCAGGG | CCAGCACGAG | GGATGGTGCA | CTGCTGGCAC | TATGCCACGG | CCTGCTTG TG | 5880 |
| ACTCTGAGAG | CAACTGCTTT | GGAAATGACA | GCACTTGGTG | CAATTTCTTT | TGTTTCAGAA | 5940 |
| TGCGTAGAGC | GTGTGCTTGG | CGACAGTTTT | TCTAGTTAGG | CCACTTCTTT | TTTCTTCTC | 6000 |
| TCCTCATTCT | CCTAAGCATG | TCTCCATGCT | GGTAATCCCA | GTCAAGTGAA | CGTTCAAACA | 6060 |
| ATGAATCCAT | CACTGTAGGA | TTCTCGTGGT | GATCAAATCT | TTGTGTGAGG | TCTATAAAAT | 6120 |
| ATGGAAGCTT | ATTTATTTTT | CGTTCTTCCA | TATCAGTCTT | CTCTATGACA | ATTCACATCC | 6180 |
| ACCACAGCAA | ATTAAAGGTG | AAGGAGGCTG | GTGGGATGAA | GAGGGTCTTC | TAGCTTTACG | 6240 |
| TTCTTCCTTG | CAAGGCCACA | GGAAATGCT | GAGAGCTGTA | GAATACAGCC | TGGGGTAAGA | 6300 |
| AGTTCAGTCT | CCTGCTGGGA | CAGCTAACCG | CATCTTATAA | CCCCTTCTGA | GACTCATCTT | 6360 |

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|-------------|------------|------------|-------------|-------------|-------------|------|
| AGGACCAAAAT | AGGGTCTATC | TGGGGTTTTT | GTTCTGCTG | TTCTCTCTGG | AAGGCTATCT | 6420 |
| CACTATTTCA | CTGCTCCCAC | GGTTACAAAC | CAAAGATACA | GCCTGAATTT | TTTCTAGGCC | 6480 |
| ACATTACATA | AATTTGACCT | GGTACCAATA | TTGTTCTCTA | TATAGTTATT | TCCTTCCCCA | 6540 |
| CTGTGTTTAA | CCCCTTAAGG | CATTCAGAAC | AACTAGAATC | ATAGAATGGT | TTGGATTGGA | 6600 |
| AGGGGCCCTTA | AACATCATCC | ATTTCCAACC | CTCTGCCATG | GGCTGCTTGC | CACCCACTGG | 6660 |
| CTCAGGCTGC | CCAGGGCCCC | ATCCAGCCTG | GCCTTGAGCA | CCTCCAGGGA | TGGGGCACCC | 6720 |
| ACAGCTTCTC | TGGGCAGCCT | GTGCCAACAC | CTCACCACCTC | TCTGGGTAAA | GAATTCTCTT | 6780 |
| TTAACATCTA | ATCTAAATCT | CTTCTCTTTT | AGTTTAAAGC | CATTCTCTTT | TTTCCCGTTG | 6840 |
| CTATCTGTCC | AAGAAATGTG | TATTGGTCTC | CCTCTGCTT | ATAAGCAGGA | AGTACTGGAA | 6900 |
| GGCTGCAGTG | AGGTCTCCCC | ACAGCCTTCT | CTTCTCCAGG | CTGAACAAGC | CCAGCTCCTT | 6960 |
| CAGCCTGTCT | TCGTAGGAGA | TCATCTTAGT | GGCCCTCCTC | TGGACCCATT | CCAACAGTTC | 7020 |
| CACGGCTTTC | TTGTGGAGCC | CCAGGTCTGG | ATGCAGTACT | TCAGATGGGG | CCTTACAAAG | 7080 |
| GCAGAGCAGA | TGGGGACAAT | CGCTTACCCC | TCCCTGCTGG | CTGCCCCCTGT | TTTGATGCAG | 7140 |
| CCCAGGGTAC | TGTTGGCCTT | TCAGGCTCCC | AGACCCCTTG | CTGATTTGTG | TCAAGCTTTT | 7200 |
| CATCCACCAG | AACCCACGCT | TCCTGGTTAA | TACTTCTGCC | CTCACTTCTG | TAAGCTTGTT | 7260 |
| TCAGGAGACT | TCCATTCTTT | AGGACAGACT | GTGTTACACC | TACCTGCCCT | ATTCTTGCA | 7320 |
| ATATACATTT | CAGTTCATGT | TTCTGTAAAC | AGGACAGAA | ATGTATTCTT | CTAACAAAA | 7380 |
| TACATGCAGA | ATTCTAGTG | CCATCTCAGT | AGGGTTTTCA | TGGCAGTATT | AGCACATAGT | 7440 |
| CAATTTGCTG | CAAGTACCTT | CCAAGCTGCG | GCCTCCCATA | AATCTGTAT | TTGGGATCAG | 7500 |
| TTACCTTTTG | GGGTAAGCTT | TTGTATCTGC | AGAGACCCTG | GGGGTTCTGA | TGTGCTTCAG | 7560 |
| CTCTGCTCTG | TTCTGACTGC | ACCATTTTCT | AGATCACCCA | GTTGTTCTTG | TACAACTTCC | 7620 |
| TTGTCTCTCA | TCCTTTCCCA | GCTTGATCT | TTGACAAATA | CAGGCCTATT | TTTGTGTTTG | 7680 |
| CTTCAGCAGC | CATTTAATTC | TTCAGTGTC | TCTTGTTCTG | TTGATGCCAC | TGGAACAGGA | 7740 |
| TTTTCAGCAG | TCTTGCAAAG | AACATCTAGC | TGAAAACTTT | CTGCCATTCA | ATATTCTTAC | 7800 |
| CAGTTCTTCT | TGTTTGAGGT | GAGCCATAAA | TTACTAGAAC | TTCGTCACTG | ACAAGTTTAT | 7860 |
| GCATTTTATT | ACTTCTATTA | TGTACTTACT | TTGACATAAC | ACAGACACGC | ACATATTTTG | 7920 |
| CTGGGATTTT | CACAGTGTCT | CTGTGTCCTT | CACATGGTTT | TACTGTCATA | CTTCCGTTAT | 7980 |
| AACCTTGGCA | ATCTGCCCAG | CTGCCCATCA | CAAGAAAAGA | GATTCCTTTT | TTATTACTTC | 8040 |
| TCTTCAGCCA | ATAAACAAAA | TGTGAGAAAG | CCAAACAAGA | ACTTGTGGGG | CAGGCTGCCA | 8100 |
| TCAAGGGAGA | GACAGCTGAA | GGGTTGTGTA | GCTCAATAGA | ATTAAGAAAT | AATAAAGCTG | 8160 |
| TGTCAGACAG | TTTTGCCTGA | TTTATACAGG | CACGCCCCAA | GCCAGAGAGG | CTGTCTGCCA | 8220 |
| AGGCCACCTT | GCAGTCCTTG | GTTTGTAAAG | TAAGTCATAG | GTAACTTTTT | TGGTGAATTG | 8280 |
| CGTGGAGAAT | CATGATGGCA | GTTCTTGCTG | TTTACTATGG | TAAGATGCTA | AAATAGGAGA | 8340 |
| CAGCAAAGTA | ACACTTGCTG | CTGTAGGTGC | TCTGCTATCC | AGACAGCGAT | GGCACTCGCA | 8400 |
| CACCAAGATG | AGGGATGCTC | CCAGCTGACG | GATGCTGGGG | CAGTAACAGT | GGGTCCCATG | 8460 |
| CTGCCTGCTC | ATTAGCATCA | CCTCAGCCCT | CACCAGCCCA | TCAGAAGGAT | CATCCCAAGC | 8520 |
| TGAGGAAAGT | TGCTCATCTT | CTTCACATCA | TCAAACCTTT | GGCCTGACTG | ATGCCTCCCG | 8580 |
| GATGCTTAAA | TGTGGTCACT | GACATCTTTA | TTTTTCTATG | ATTTCAAGTC | AGAACCTCCG | 8640 |
| GATCAGGAGG | GAACACATAG | TGGGAATGTA | CCCTCAGCTC | CAAGGCCAGA | TCTTCCTTCA | 8700 |
| ATGATCATGC | ATGCTACTTA | GGAAGGTGTG | TGTGTGTGAA | TGTAGAATTG | CCTTTGTTAT | 8760 |
| TTTTTCTTCC | TGCTGTCAGG | AACATTTTGA | ATACCAGAGA | AAAAGAAAAAG | TGCTCTTCTT | 8820 |
| GGCATGGGAG | GAGTTGTCAC | ACTTGCAAAA | TAAAGGATGC | AGTCCCAAA | GTTTCATAATC | 8880 |
| TCAGGGTCTG | AAGGAGGATC | AGAAACTGTG | TATACAATTT | CAGGCTTCTC | TGAATGCAGC | 8940 |
| TTTTGAAAGC | TGTTCTTGCC | CGAGGCAGTA | CTAGTCAGAA | CCCTCGGAAA | CAGGAACAAA | 9000 |
| TGTCTTCAAG | GTGCAGCAGG | AGGAAACACC | TTGCCCATCA | TGAAAGTGAA | TAACCACTGC | 9060 |
| CGCTGAAGGA | ATCCAGCTCC | TGTTTGAGCA | GGTGCTGCAC | ACTCCACAC | TGAAACAACA | 9120 |
| GTTCAATTTT | ATAGGACTTC | CAGGAAGGAT | CTTCTTCTTA | AGCTTCTTAA | TTATGGTACA | 9180 |
| TCTCCAGTTG | GCAGATGACT | ATGACTACTG | ACAGGAGAA | GAGGAAGTAG | CTGGGAATAT | 9240 |
| TTCTGTTTGA | CCACCATGGA | GTCACCCATT | TCTTTACTGG | TATTTGGAAA | TAATAATTCT | 9300 |
| GAATTGCAAA | GCAGGAGTTA | GCGAAGATCT | TCATTTCTTC | CATGTTGGTG | ACAGCACAGT | 9360 |
| TCTGGCTATG | AAAGTCTGCT | TACAAGGAAG | AGGATAAAAA | TCATAGGGAT | AATAAATCTA | 9420 |
| AGTTTGAAGA | CAATGAGGTT | TTAGCTGCAT | TTGACATGAA | GAAATTGAGA | CCTCTACTGG | 9480 |
| ATAGCTATGG | TATTTACGTG | TCTTTTTGCT | TAGTTACTTA | TTGACCCAG | CTGAGGTCAA | 9540 |
| GTATGAACTC | AGGTCTCTCG | GGCTACTGGC | ATGGATTGAT | TACATACAAC | TGTAATTTTA | 9600 |

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|------------|-------------|-------------|-------------|------------|------------|-------|
| GCAGTGATTT | AGGGTTTATG | AGTACTTTTG | CAGTAAATCA | TAGGGTTAGT | AATGTTAATC | 9660 |
| TCAGGGAAAA | AAAAAAAAAAG | CCAACCCTGA | CAGACATCCC | AGCTCAGGTG | GAAATCAAGG | 9720 |
| ATCACAGCTC | AGTGCGGTCC | CAGAGAACAC | AGGGACTCTT | CTCTTAGGAC | CTTTATGTAC | 9780 |
| AGGGCCTCAA | GATAACTGAT | GTTAGTCAGA | AGACTTTCCA | TTCTGGCCAC | AGTTCAGCTG | 9840 |
| AGGCAATCCT | GGAATTTTCT | CTCCGCTGCA | CAGTTCAGT | CATCCCAGTT | TGTACAGTTC | 9900 |
| TGGCACTTTT | TGGGTCAGGC | CGTGATCCAA | GGAGCAGAAG | TTCCAGCTAT | GGTCAGGGAG | 9960 |
| TGCCTGACCG | TCCCAACTCA | CTGCACTCAA | ACAAAGGCGA | AACCACAAGA | GTGGCTTTTG | 10020 |
| TTGAAATTGC | AGTGTGGCCC | AGAGGGGCTG | CACCAGTACT | GGATTGACCA | CGAGGCAACA | 10080 |
| TTAATCCTCA | GCAAGTGCAA | TTTGCAGCCA | TTAAATTGAA | CTAACTGATA | CTACAATGCA | 10140 |
| ATCAGTATCA | ACAAGTGGTT | TGGCTTGGA | GATGGAGTCT | AGGGGCTCTA | CAGGAGTAGC | 10200 |
| TACTCTCTAA | TGGAGTTGCA | TTTTGAAGCA | GGACACTGTG | AAAAGCTGGC | CTCCTAAAGA | 10260 |
| GGCTGCTAAA | CATTAGGGTC | AATTTTCCAG | TGCACTTTCT | GAAGTGTCTG | CAGTCCCCCA | 10320 |
| TGCAAAGCTG | CCCAAACATA | GCACTTCCAA | TTGAATACAA | TTATATGCAG | GCGTACTGCT | 10380 |
| TCTTGCCAGC | ACTGTCCTTC | TCAAATGAAC | TCAACAAACA | ATTTCAAAGT | CTAGTAGAAA | 10440 |
| GTAACAAGCT | TTGAATGTCA | TTAAAAAGTA | TATCTGCTTT | CAGTAGTTCA | GCTTATTTAT | 10500 |
| GCCCACTAGA | AACATCTTGT | ACAAGCTGAA | CACTGGGGCT | CCAGATTAGT | GGTAAAACCT | 10560 |
| ACTTTATACA | ATCATAGAAT | CATAGAATGG | CCTGGGTTGG | AAGGGACCCC | AAGGATCATG | 10620 |
| AAGATCCAAC | ACCCCCGCCA | CAGGCAGGGC | CACCAACCTC | CAGATCTGGT | ACTAGACCAG | 10680 |
| GCAGCCCAGG | GCTCCATCCA | ACCTGGCCAT | GAACACCTCC | AGGGATGGAG | CATCCACAAC | 10740 |
| CTCTCTGGGC | AGCCTGTGCC | AGCACCTCAC | CACCCTCTCT | GTGAAGAACT | TTTCCCTGAC | 10800 |
| ATCCAATCTA | AGCCTTCCCT | CCTTGAGGTT | AGATCCACTC | CCCCTTGTGC | TATCACTGTC | 10860 |
| TACTCTTGTA | AAAAGTTGAT | TCTCCTCCTT | TTTGGAAGGT | TGCAATGAGG | TCTCCTTGCA | 10920 |
| GCCTTCTTCT | CTTCTGCAGG | ATGAACAAGC | CCAGCTCCCT | CAGCCTGTCT | TTATAGGAGA | 10980 |
| GGTGCTCCAG | CCCTCTGATC | ATCTTTGTGG | CCCTCCTCTG | GACCCGCTCC | AAGAGCTCCA | 11040 |
| CATCTTTTCT | GTAAGGGGGG | CCCCAGGCCT | GAATGCAGTA | CTCCAGATGG | GGCCTCAAAA | 11100 |
| GAGCAGAGTA | AAGAGGGACA | ATCACCTTCC | TCACCTTGCT | GGCCAGCCCT | CTTCTGATGG | 11160 |
| AGCCCTGGAT | ACAAGTGGCT | TTCTGAGCTG | CAACTTCTCC | TTATCAGTTC | CACTATTAAA | 11220 |
| ACAGGAACAA | TACAACAGGT | GCTGATGGCC | AGTGCAGAGT | TTTTCACACT | TCTTCATTTT | 11280 |
| GGTAGATCTT | AGATGAGGAA | CGTTGAAGTT | GTGCTTCTGC | GTGTGCTTCT | TCCTCCTCAA | 11340 |
| ATACTCCTGC | CTGATACCTC | ACCCACCTG | CCACTGAATG | GCTCCATGGC | CCCCTGCAGC | 11400 |
| CAGGGCCCTG | ATGAACCCGG | CACCTGCTTCA | GATGCTGTTT | AATAGCACAG | TATGACCAAG | 11460 |
| TTGCACCTAT | GAATACACAA | ACAATGTGTT | GCATCCTTCA | GCACTTGAGA | AGAAGAGCCA | 11520 |
| AATTTGCATT | GTCAGGAAAT | GGTTTAGTAA | TTCTGCCAAT | TAAAACTTGT | TTATCTACCA | 11580 |
| TGGCTGTTTT | TATGGCTGTT | AGTAGTGGTA | CACCTGATGAT | GAACAATGGC | TATGCAGTAA | 11640 |
| AATCAAGACT | GTAATATTG | CAACAGACTA | TAAAATTCCT | CTGTGGCTTA | GCCAATGTGG | 11700 |
| TACTTCCCAC | ATTGTATAAG | AAATTTGGCA | AGTTTAGAGC | AATGTTTGAA | GTGTTGGGAA | 11760 |
| ATTTCTGTAT | ACTCAAGAGG | GCGTTTTTGA | CAACTGTAGA | ACAGAGGAAT | CAAAAGGGGG | 11820 |
| TGGGAGGAAG | TTAAAAGAAG | AGGCAGGTGC | AAGAGAGCTT | GCAGTCCCGC | TGTGTGTACG | 11880 |
| ACACTGGCAA | CATGAGGTCT | TTGCTAATCT | TGGTGCTTTG | CTTCTGCCC | CTGGCTGCCT | 11940 |
| TAGGGTGCGA | TCTGCCTCAG | ACCCACAGCC | TGGGCAGCAG | GAGGACCTTG | ATGCTGCTGG | 12000 |
| CTCAGATGAG | GAGAATCAGC | CTGTTTAGCT | GCCTGAAGGA | TAGGCACGAT | TTTGGCTTTC | 12060 |
| CTCAAGAGGA | GTTTGGAAC | CAGTTTCAGA | AGGCTGAGAC | CATCCCTGTG | CTGCACGAGA | 12120 |
| TGATCCAGCA | GATCTTTAAC | CTGTTTAGCA | CCAAGGATAG | CAGCGCTGCT | TGGGATGAGA | 12180 |
| CCCTGCTGGA | TAAGTTTTAC | ACCGAGCTGT | ACCAGCAGCT | GAACGATCTG | GAGGCTTGCG | 12240 |
| TGATCCAGGG | CGTGGGCGTG | ACCGAGACCC | CTCTGATGAA | GGAGGATAGC | ATCCTGGCTG | 12300 |
| TGAGGAAGTA | CTTTCAGAGG | ATCACCTGT | ACCTGAAGGA | GAAGAAGTAC | AGCCCTGCG | 12360 |
| CTTGGGAAGT | CGTGAGGGCT | GAGATCATGA | GGAGCTTTAG | CCTGAGCACC | AACCTGCAAG | 12420 |
| AGAGCTTGAG | GTCTAAGGAG | TAAAAAGTCT | AGAGTCGGGG | CGGCCGGCCG | CTTCGAGCAG | 12480 |
| ACATGATAAG | ATACATTGAT | GAGTTTGGAC | AAACCACAAC | TAGAATGCAG | TGAAAAAAT | 12540 |
| GCTTTATTTG | TGAAATTTGT | GATGCTATTG | CTTTATTTGT | AACCATTATA | AGCTGCAATA | 12600 |
| AACAAGTTAA | CAACAACAAT | TGCATTCAAT | TTATGTTTCA | GGTTCAGGGG | GAGGTGTGGG | 12660 |
| AGGTTTTTTA | AAGCAAGTAA | AACCTCTACA | AATGTGGTAA | AATCGATAAG | GATCCGTCGA | 12720 |
| GCGGCCGC | | 12728 | | | | |

FIGURE 4: SEQ ID NO: 66

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| TGCGATCTGC | CTCAGACCCA | CAGCCTGGGC | AGCAGGAGGA | CCCTGATGCT | GCTGGCTCAG | 60 |
| ATGAGGAGAA | TCAGCCTGTT | TAGCTGCCTG | AAGGATAGGC | ACGATTTTGG | CTTTCCTCAA | 120 |
| GAGGAGTTTG | GCAACCAGTT | TCAGAAGGCT | GAGACCATCC | CTGTGCTGCA | CGAGATGATC | 180 |
| CAGCAGATCT | TTAACCTGTT | TAGCACCAAG | GATAGCAGCG | CTGCTTGGGA | TGAGACCCTG | 240 |
| CTGGATAAGT | TTTACACCGA | GCTGTACCAG | CAGCTGAACG | ATCTGGAGGC | TTGCGTGATC | 300 |
| CAGGGCGTGG | GCGTGACCGA | GACCCCTCTG | ATGAAGGAGG | ATAGCATCCT | GGCTGTGAGG | 360 |
| AAGTACTTTC | AGAGGATCAC | CCTGTACCTG | AAGGAGAAGA | AGTACAGCCC | CTGCGCTTGG | 420 |
| GAAGTCGTGA | GGGCTGAGAT | CATGAGGAGC | TTTAGCCTGA | GCACCAACCT | GCAAGAGAGC | 480 |
| TTGAGGTCTA | AGGAGTAA | 498 | | | | |

FIGURE 5: SEQ ID NO: 67

| | | | | | | |
|-------------|------------|------------|-------------|------------|-------------|------|
| TGCCGCCTTC | TTTGATATTC | ACTCTGTTGT | ATTTTCATCTC | TTCTTGCCGA | TGAAAGGATA | 60 |
| TAACAGTCTG | TATAACAGTC | TGTGAGGAAA | TACTTGGTAT | TTCTTCTGAT | CAGTGTTTTT | 120 |
| ATAAGTAATG | TTGAATATTG | GATAAGGCTG | TGTGTCCTTT | GTCTTGGGAG | ACAAAGCCCA | 180 |
| CAGCAGGTGG | TGGTTGGGGT | GGTGGCAGCT | CAGTGACAGG | AGAGGTTTTT | TTGCCTGTTT | 240 |
| TTTTTTTTTT | TTTTTTTTTT | AAGTAAGGTG | TTCTTTTTTC | TTAGTAAATT | TTCTACTGGA | 300 |
| CTGTATGTTT | TGACAGGTCA | GAAACATTTT | TTCAAAAGAA | GAACCTTTTG | GAAACTGTAC | 360 |
| AGCCCTTTTC | TTTCATTCCC | TTTTTGCTTT | CTGTGCCAAT | GCCTTTGGTT | CTGATTGCAT | 420 |
| TATGAAAAAC | GTTGATCGGA | ACTTGAGGTT | TTTATTTATA | GTGTGGCTTG | AAAGCTTGGA | 480 |
| TAGCTGTTGT | TACACGAGAT | ACCTTATTAA | GTTTAGGCCA | GCTTGATGCT | TTATTTTTTC | 540 |
| CCTTTGAAGT | AGTGAGCGTT | CTCTGGTTTT | TTTCCTTTGA | AACTGGTGAG | GCTTAGATTT | 600 |
| TTCTAATGGG | ATTTTTTACC | TGATGATCTA | GTTGCATACC | CAAATGCTTG | TAAATGTTTT | 660 |
| CCTAGTTAAC | ATGTTGATAA | CTTCGGATTT | ACATGTTGTA | TATACTTGTC | ATCTGTGTTT | 720 |
| CTAGTAAAAA | TATATGGCAT | TTATAGAAAT | ACGTAATTCC | TGATTTCCCT | TTTTTTTTATC | 780 |
| TCTATGCTCT | GTGTGTACAG | GTCAAACAGA | CTTCACTCCT | ATTTTTATTT | ATAGAATTTT | 840 |
| ATATGCAGTC | TGTCGTTGGT | TCTTGTGTTG | TAAGGATACA | GCCTTAAATT | TCCTAGAGCG | 900 |
| ATGCTCAGTA | AGGCGGGTTG | TCACATGGGT | TCAAATGTAA | AACGGGCACG | TTTGGCTGCT | 960 |
| GCCTTCCCGA | GATCCAGGAC | ACTAAACTGC | TTCTGCACTG | AGGTATAAAT | CGCTTCAGAT | 1020 |
| CCCAGGGAAG | TGCAGATCCA | CGTGCATATT | CTTAAAGAAG | AATGAATACT | TTCTAAAATA | 1080 |
| TTTTGGCATA | GGAAGCAAGC | TGCATGGATT | TGTTTGGGAC | TTAAATTATT | TTGGTAACGG | 1140 |
| AGTGCATAGG | TTTTAAACAC | AGTTGCAGCA | TGCTAACGAG | TCACAGCGTT | TATGCAGAAG | 1200 |
| TGATGCCTGG | ATGCCTGTTG | CAGCTGTTTA | CGGCACTGCC | TTGCAGTGAG | CATTGCAGAT | 1260 |
| AGGGGTGGGG | TGCTTTGTGT | CGTGTTCCCA | CACGCTGCCA | CACAGCCACC | TCCCGGAACA | 1320 |
| CATCTCACCT | GCTGGGTACT | TTTCAAACCA | TCTTAGCAGT | AGTAGATGAG | TTACTATGAA | 1380 |
| ACAGAGAAGT | TCCTCAGTTG | GATATTCTCA | TGGGATGTCT | TTTTTCCCAT | GTTGGGCAAA | 1440 |
| GTATGATAAA | GCATCTCTAT | TTGTAAATTA | TGCACTTGTT | AGTTCCTGAA | TCCTTTCTAT | 1500 |
| AGCACCACTT | ATTGCAGCAG | GTGTAGGCTC | TGGTGTGGCC | TGTGCTCTGT | CTTCAATCTT | 1560 |
| TTAAAGCTTC | TTTGAAATAA | CACTGACTTG | ATTGAAGTCT | CTTGAAGATA | GTAAACAGTA | 1620 |
| CTTACCTTTG | ATCCCAATGA | AATCGAGCAT | TTCAGTTGTA | AAAGAATTCC | GCCTATTCAT | 1680 |
| ACCATGTAAAT | GTAATTTTAC | ACCCCCAGTG | CTGACACTTT | GGAATATATT | CAAGTAATAG | 1740 |
| ACTTTGGCCT | CACCCTCTTG | TGTAATGAT | TTTGTAATAG | AAAATATTTT | AAACTGTGCA | 1800 |
| TATGATTATT | ACATTATGAA | AGAGACATTC | TGCTGATCTT | CAAATGTAAG | AAAATGAGGA | 1860 |
| GTGCGTGTGC | TTTTATAAAT | ACAAGTGATT | GCAAATTAGT | GCAGGTGTCC | TTAAAAAAA | 1920 |
| AAAAAAAAAAG | TAATATAAAA | AGGACCAGGT | GTTTTACAAG | TGAAATACAT | TCCTATTTGG | 1980 |
| TAAACAGTTA | CATTTTTATG | AAGATTACCA | GCGCTGCTGA | CTTTCTAAAC | ATAAGGCTGT | 2040 |
| ATTGTCTTCC | TGTACCATTG | CATTTCTCTA | TTCCCAATTT | GCACAAGGAT | GTCTGGGTAA | 2100 |
| ACTATTCAAG | AAATGGCTTT | GAAATACAGC | ATGGGAGCTT | GTCTGAGTTG | GAATGCAGAG | 2160 |
| TTGCACTGCA | AAATGTCAGG | AAATGGATGT | CTCTCAGAAT | GCCCAACTCC | AAAGGATTTT | 2220 |
| ATATGTGTAT | ATAGTAAGCA | GTTTCCTGAT | TCCAGCAGGC | CAAAGAGTCT | GCTGAATGTT | 2280 |
| GTGTTGCCGG | AGACCTGTAT | TTCTCAACAA | GGTAAGATGG | TATCCTAGCA | ACTGCGGATT | 2340 |
| TTAATACATT | TTCAGCAGAA | GTAATTAGTT | AATCTCTACC | TTTAGGGATC | GTTTCATCAT | 2400 |
| TTTTAGATGT | TATACTTGAA | ATACTGCATA | ACTTTTAGCT | TTCATGGGTT | CCTTTTTTTC | 2460 |
| AGCCTTTAGG | AGACTGTAA | GCAATTTGCT | GTCCAACTTT | TGTGTTGGTC | TTAAACTGCA | 2520 |
| ATAGTAGTTT | ACCTTGTATT | GAAGAAATAA | AGACCATTTT | TATATTAAAA | AATACTTTTG | 2580 |
| TCTGTCTTCA | TTTTGACTTG | TCTGATATCC | TTGCAGTGCC | CATTATGTCA | GTTCTGTCAG | 2640 |
| ATATTCAAG | ATCAAACTT | AACGTGAGCT | CAGTGGAGTT | ACAGCTGCGG | TTTGTATGCT | 2700 |
| GTTATTATTT | CTGAAACTAG | AAATGATGTT | GTCTTCATCT | GCTCATCAAA | CACTTCATGC | 2760 |
| AGAGTGTAAG | GCTAGTGAGA | AATGCATACA | TTTATTGATA | CTTTTTTAAA | GTCAACTTTT | 2820 |
| TATCAGATTT | TTTTTTCATT | TGGAAATATA | TTGTTTTCTA | GACTGCATAG | CTTCTGAATC | 2880 |
| TGAAATGCAG | TCTGATTGGC | ATGAAGAAGC | ACAGCACTCT | TCATCTTACT | TAAACTTCAT | 2940 |
| TTTGGAATGA | AGGAAGTTAA | GCAAGGGCAC | AGGTCCATGA | AATAGAGACA | GTGCGCTCAG | 3000 |
| GAGAAAGTGA | ACCTGGATTT | CTTTGGCTAG | TGTTCTAAAT | CTGTAGTGAG | GAAAGTAACA | 3060 |

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| CCCGATTCCCT | TGAAAGGGCT | CCAGCTTTAA | TGCTTCCAAA | TTGAAGGTGG | CAGGCAACTT | 3120 |
| GGCCACTGGT | TATTTACTGC | ATTATGTCTC | AGTTTCGCAG | CTAACCTGGC | TTCTCCACTA | 3180 |
| TTGAGCATGG | ACTATAGCCT | GGCTTCAGAG | GCCAGGTGAA | GGTTGGGATG | GGTGGAAGGA | 3240 |
| GTGCTGGGCT | GTGGCTGGGG | GGACTGTGGG | GACTCCAAGC | TGAGCTTGGG | GTGGGCAGCA | 3300 |
| CAGGGAAAAG | TGTGGGTAAAC | TATTTTTTAAG | TACTGTGTTG | CAAACGTCTC | ATCTGCAAAT | 3360 |
| ACGTAGGGTG | TGTACTCTCG | AAGATTAACA | GTGTGGGTTC | AGTAATATAT | GGATGAATTC | 3420 |
| ACAGTGGAAG | CATTCAAGGG | TAGATCATCT | AACGACACCA | GATCATCAAG | CTATGATTGG | 3480 |
| AAGCGGTATC | AGAAGAGCGA | GGAAGGTAA | CAGTCTTCAT | ATGTTTTCCC | TCCACGTAAA | 3540 |
| GCAGTCTGGG | AAAGTAGCAC | CCCTTGAGCA | GAGACAAGGA | AATAATTCAG | GAGCATGTGC | 3600 |
| TAGGAGAACT | TTCTTGCTGA | ATTCTACTTG | CAAGAGCTTT | GATGCCCTGGC | TTCTGGTGCC | 3660 |
| TTCTGCAGCA | CCTGCAAGGC | CCAGAGCCTG | TGGTGAGCTG | GAGGGAAAGA | TTCTGCTCAA | 3720 |
| GTCCAAGCTT | CAGCAGGTCA | TTGTCTTTGC | TTCTTCCCCC | AGCACTGTGC | AGCAGAGTGG | 3780 |
| AACTGATGTC | GAAGCCTCCT | GTCCACTACC | TGTTGCTGCA | GGCAGACTGC | TCTCAGAAAA | 3840 |
| AGAGAGCTAA | CTCTATGCCA | TAGTCTGAAG | GTAAAAATGGG | TTTTAAAAAA | GAAAAACACAA | 3900 |
| AGGCAAAACC | GGCTGCCCCA | TGAGAAGAAA | GCAGTGGTAA | ACATGGTAGA | AAAGGTGCAG | 3960 |
| AAGCCCCCAG | GCAGTGTGAC | AGGCCCTTCC | TGCCACCTAG | AGGCGGGAAC | AAGCTTCCCT | 4020 |
| GCCTAGGGCT | CTGCCCCGGA | AGTGCCTGTT | TCTTTGGTGG | GTTTTGTTTG | GCGTTTGGTT | 4080 |
| TTGAGATTTA | GACACAAGGG | AAGCCTGAAA | GGAGGTGTTG | GGCACTATTT | TGGTTTGTAA | 4140 |
| AGCCTGTACT | TCAAATATAT | ATTTTGTGAG | GGAGTGTAGC | GAATTGGCCA | ATTTAAATA | 4200 |
| AAGTTGCAAG | AGATTGAAGG | CTGAGTAGTT | GAGAGGGTAA | CACGTTTAAT | GAGATCTTCT | 4260 |
| GAAACTACTG | CTTCTAAACA | CTTGTTTGAG | TGGTGAGACC | TTGGATAGGT | GAGTGCTCTT | 4320 |
| GTTACATGTC | TGATGCACTT | GCTTGTCCTT | TTCCATCCAC | ATCCATGCAT | TCCACATCCA | 4380 |
| CGCATTTGTC | ACTTATCCCA | TATCTGTCAT | ATCTGACATA | CCTGTCTCTT | CGTCACTTGG | 4440 |
| TCAGAAGAAA | CAGATGTGAT | AATCCCCAGC | CGCCCCAAGT | TTGAGAAGAT | GGCAGTTGCT | 4500 |
| TCTTTCCCTT | TTTCTGCTA | AGTAAGGATT | TTCTCTGGC | TTTGACACCT | CACGAAATAG | 4560 |
| TCTTCTGCC | TTACATTCTG | GGCATTATTT | CAAATATCTT | TGGAGTGCGC | TGCTCTCAAG | 4620 |
| TTTGTGTCTT | CCTACTCTTA | GAGTGAATGC | TCTTAGAGTG | AAAGAGAAGG | AAGAGAAGAT | 4680 |
| GTTGGCCGCA | GTTCTCTGAT | GAACACACCT | CTGAATAATG | GCCAAAGGTG | GGTGGGTTTC | 4740 |
| TCTGAGGAAC | GGGCAGCGTT | TGCCTCTGAA | AGCAAGGAGC | TCTGCGGAGT | TGCAGTTATT | 4800 |
| TTGCAACTGA | TGGTGGAAC | GGTGCTTAAA | GCAGATTCCC | TAGGTTCCCT | GCTACTTCTT | 4860 |
| TTCCTTCTTG | GCAGTCAGTT | TATTTCTGAC | AGACAAACAG | CCACCCCCAC | TGCAGGCTTA | 4920 |
| GAAAGTATGT | GGCTCTGCCT | GGGTGTGTTA | CAGCTCTGCC | CTGGTGAAAG | GGGATTAAAA | 4980 |
| CGGGCACCAT | TCATCCCAAA | CAGGATCCTC | ATTCATGGAT | CAAGCTGTAA | GGAAGTGGG | 5040 |
| CTCCAACCTC | AAAACATTAA | TTGGAGTACG | AATGTAATTA | AAACTGCATT | CTCGCATTCC | 5100 |
| TAAGTCATTT | AGTCTGGACT | CTGCAGCATG | TAGGTCGGCA | GCTCCCACTT | TCTCAAAGAC | 5160 |
| CACTGATGGA | GGAGTAGTAA | AAATGGAGAC | CGATTTCAGAA | CAACCAACGG | AGTGTGCGG | 5220 |
| AAGAACTGA | TGGAAATAAT | GCATGAATTG | TGTGGTGGAC | ATTTTTTTTA | AATACATAAA | 5280 |
| CTACTTCAAA | TGAGGTCGGA | GAAGGTCAGT | GTTTTATTAG | CAGCCATAAA | ACCAGGTGAG | 5340 |
| CGAGTACCAT | TTTTCTCTAC | AAGAAAAACG | ATTCTGAGCT | CTGCGTAAGT | ATAAGTTCTC | 5400 |
| CATAGCGGCT | GAAGCTCCCC | CCTGGCTGCC | TGCCATCTCA | GCTGGAGTGC | AGTGCCATTT | 5460 |
| CCTTGGGGTT | TCTCTCACAG | CAGTAATGGG | ACAATACTTC | ACAAAAATTC | TTTCTTTTCC | 5520 |
| TGTCATGTGG | GATCCCTACT | GTGCCCTCCT | GGTTTTACGT | TACCCCTGA | CTGTTCCATT | 5580 |
| CAGCGGTTTG | GAAAGAGAAA | AAGAATTTGG | AAATAAAACA | TGTCTACGTT | ATCACCTCCT | 5640 |
| CCAGCATTTT | GGTTTTTAAT | TATGTCAATA | ACTGGCTTAG | ATTTGGAAAT | GAGAGGGGGT | 5700 |
| TGGGTGTATT | ACCGAGGAAC | AAAGGAAGGC | TTATATAAAC | TCAAGTCTTT | TATTTAGAGA | 5760 |
| ACTGGCAAGC | TGTCAAAAAC | AAAAAGGCCT | TACCACCAAA | TTAAGTGAAT | AGCCGCTATA | 5820 |
| GCCAGCAGGG | CCAGCACGAG | GGATGGTGCA | CTGCTGGCAC | TATGCCACGG | CCTGCTTGTG | 5880 |
| ACTCTGAGAG | CAACTGCTTT | GGAAATGACA | GCACTTGGTG | CAATTTCTTT | TGTTTCAGAA | 5940 |
| TGCGTAGAGC | GTGTGCTTGG | CGACAGTTTT | TCTAGTTAGG | CCACTTCTTT | TTTCTTCTC | 6000 |
| TCCTCATTTCT | CCTAAGCATG | TCTCCATGCT | GGTAATCCCA | GTCAAGTGAA | CGTTCAAACA | 6060 |
| ATGAATCCAT | CACTGTAGGA | TTCTCGTGGT | GATCAAATCT | TTGTGTGAGG | TCTATAAAAT | 6120 |
| ATGGAAGCTT | ATTTATTTTT | CGTTCTTCCA | TATCAGTCTT | CTCTATGACA | ATTCACATCC | 6180 |
| ACCACAGCAA | ATTAAAGGTG | AAGGAGGCTG | GTGGGATGAA | GAGGGTCTTC | TAGCTTTACG | 6240 |
| TTCTTCCTTG | CAAGGCCACA | GGAAATGCT | GAGAGCTGTA | GAATACAGCC | TGGGGTAAGA | 6300 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-------|
| GTATGAACTC | AGGTCTCTCG | GGCTACTGGC | ATGGATTGAT | TACATACAAC | TGTAATTTTA | 9600 |
| GCAGTGATTT | AGGGTTTATG | AGTACTTTTG | CAGTAAATCA | TAGGGTTAGT | AATGTTAATC | 9660 |
| TCAGGGAAAA | AAAAAAAAAG | CCAACCCTGA | CAGACATCCC | AGCTCAGGTG | GAAATCAAGG | 9720 |
| ATCACAGCTC | AGTGCGGTCC | CAGAGAACAC | AGGGACTCTT | CTCTTAGGAC | CTTTATGTAC | 9780 |
| AGGGCCTCAA | GATAACTGAT | GTTAGTCAGA | AGACTTTCCA | TTCTGGCCAC | AGTTCAGCTG | 9840 |
| AGGCAATCCT | GGAATTTTCT | CTCCGCTGCA | CAGTTCCAGT | CATCCCAGTT | TGTACAGTTC | 9900 |
| TGGCACTTTT | TGGGTCAGGC | CGTGATCCAA | GGAGCAGAAG | TTCCAGCTAT | GGTCAGGGAG | 9960 |
| TGCCTGACCG | TCCCAACTCA | CTGCACTCAA | ACAAAGGCGA | AACCACAAGA | GTGGCTTTTG | 10020 |
| TTGAAATTGC | AGTGTGGCCC | AGAGGGGCTG | CACCAGTACT | GGATTGACCA | CGAGGCAACA | 10080 |
| TTAATCCTCA | GCAAGTGCAA | TTTGCAGCCA | TTAAATTGAA | CTAACTGATA | CTACAATGCA | 10140 |
| ATCAGTATCA | ACAAGTGGTT | TGGCTTGGA | GATGGAGTCT | AGGGGCTCTA | CAGGAGTAGC | 10200 |
| TACTCTCTAA | TGGAGTTGCA | TTTTGAAGCA | GGACACTGTG | AAAAGCTGGC | CTCCTAAAGA | 10260 |
| GGCTGCTAAA | CATTAGGGTC | AATTTTCCAG | TGCACTTTCT | GAAGTGTCTG | CAGTTCCCCA | 10320 |
| TGCAAAGCTG | CCCAAACATA | GCACTTCCAA | TTGAATACAA | TTATATGCAG | GCGTACTGCT | 10380 |
| TCTTGCCAGC | ACTGTCCTTC | TCAAATGAAC | TCAACAAACA | ATTTCAAAGT | CTAGTAGAAA | 10440 |
| GTAACAAGCT | TTGAATGTCA | TTAAAAAGTA | TATCTGCTTT | CAGTAGTTCA | GCTTATTTAT | 10500 |
| GCCCACTAGA | AACATCTTGT | ACAAGCTGAA | CACTGGGGCT | CCAGATTAGT | GGTAAAACCT | 10560 |
| ACTTTATACA | ATCATAGAAT | CATAGAATGG | CCTGGGTTGG | AAGGGACCCC | AAGGATCATG | 10620 |
| AAGATCCAAC | ACCCCCGCCA | CAGGCAGGGC | CACCAACCTC | CAGATCTGGT | ACTAGACCAG | 10680 |
| GCAGCCCAGG | GCTCCATCCA | ACCTGGCCAT | GAACACCTCC | AGGGATGGAG | CATCCACAAC | 10740 |
| CTCTCTGGGC | AGCCTGTGCC | AGCACCTCAC | CACCCTCTCT | GTGAAGAACT | TTTCCCTGAC | 10800 |
| ATCCAATCTA | AGCCTTCCCT | CCTTGAGGTT | AGATCCACTC | CCCCTTGTGC | TATCACTGTC | 10860 |
| TACTCTTGTA | AAAAGTTGAT | TCTCCTCCTT | TTTGGAAGGT | TGCAATGAGG | TCTCCTTGCA | 10920 |
| GCCTTCTTCT | CTTCTGCAGG | ATGAACAAGC | CCAGCTCCCT | CAGCCTGTCT | TTATAGGAGA | 10980 |
| GGTGCTCCAG | CCCTCTGATC | ATCTTTGTGG | CCCTCCTCTG | GACCCGCTCC | AAGAGCTCCA | 11040 |
| CATCTTTCTT | GTAAGGGGGG | CCCCAGGCCT | GAATGCAGTA | CTCCAGATGG | GGCCTCAAAA | 11100 |
| GAGCAGAGTA | AAGAGGGACA | ATCACCTTCC | TCACCCTGCT | GGCCAGCCCT | CTTCTGATGG | 11160 |
| AGCCCTGGAT | ACAAGTGGCT | TTCTGAGCTG | CAACTTCTCC | TTATCAGTTC | CACTATTAAA | 11220 |
| ACAGGAACAA | TACAACAGGT | GCTGATGGCC | AGTGCAGAGT | TTTTCACACT | TCTTCATTTT | 11280 |
| GGTAGATCTT | AGATGAGGAA | CGTTGAAGTT | GTGCTTCTGC | GTGTGCTTCT | TCCTCCTCAA | 11340 |
| ATACTCCTGC | CTGATACCTC | ACCCACCTG | CCACTGAATG | GCTCCATGGC | CCCCTGCAGC | 11400 |
| CAGGGCCCTG | ATGAACCCGG | CACTGCTTCA | GATGCTGTTT | AATAGCACAG | TATGACCAAG | 11460 |
| TTGCACCTAT | GAATACACAA | ACAATGTGTT | GCATCCTTCA | GCACTTGAGA | AGAAGAGCCA | 11520 |
| AATTTGCATT | GTCAGGAAAT | GGTTTAGTAA | TTCTGCCAAT | TAAAACTTGT | TTATCTACCA | 11580 |
| TGGCTGTTTT | TATGGCTGTT | AGTAGTGGTA | CACTGATGAT | GAACAATGGC | TATGCAGTAA | 11640 |
| AATCAAGACT | GTAGATATTG | CAACAGACTA | TAAAATTCCT | CTGTGGCTTA | GCCAATGTGG | 11700 |
| TACTTCCCAC | ATTGTATAAG | AAATTTGGCA | AGTTTAGAGC | AATGTTTGAA | GTGTTGGGAA | 11760 |
| ATTTCTGTAT | ACTCAAGAGG | GCGTTTTTGA | CAACTGTAGA | ACAGAGGAAT | CAAAAGGGGG | 11820 |
| TGGGAGGAAG | TTAAAAGAAG | AGGCAGGTGC | AAGAGAGCTT | GCAGTCCCGC | TGTGTGTACG | 11880 |
| AACTGGCAA | CATGAGGTCT | TTGCTAATCT | TGGTGCTTTG | CTTCCTGCCC | CTGGCTGCCT | 11940 |
| TAGGG | 11945 | | | | | |

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FIGURE 6: SEQ ID NO: 68

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| AAAGTCTAGA | GTCGGGGCGG | CCGGCCGCTT | CGAGCAGACA | TGATAAGATA | CATTGATGAG | 60 |
| TTTGGACAAA | CCACAAC TAG | AATGCAGTGA | AAAAAATGCT | TTATTGTGA | AATTGTGAT | 120 |
| GCTATTGCTT | TATTTGTAAC | CATTATAAGC | TGCAATAAAC | AAGTTAACAA | CAACAATTGC | 180 |
| ATTCATTTTA | TGTTTCAGGT | TCAGGGGGAG | GTGTGGGAGG | TTTTTTAAAG | CAAGTAAAAC | 240 |
| CTCTACAAAT | GTGGTAAAAT | CGATAAGGAT | CCGTCGAGCG | GCCGC | | 285 |

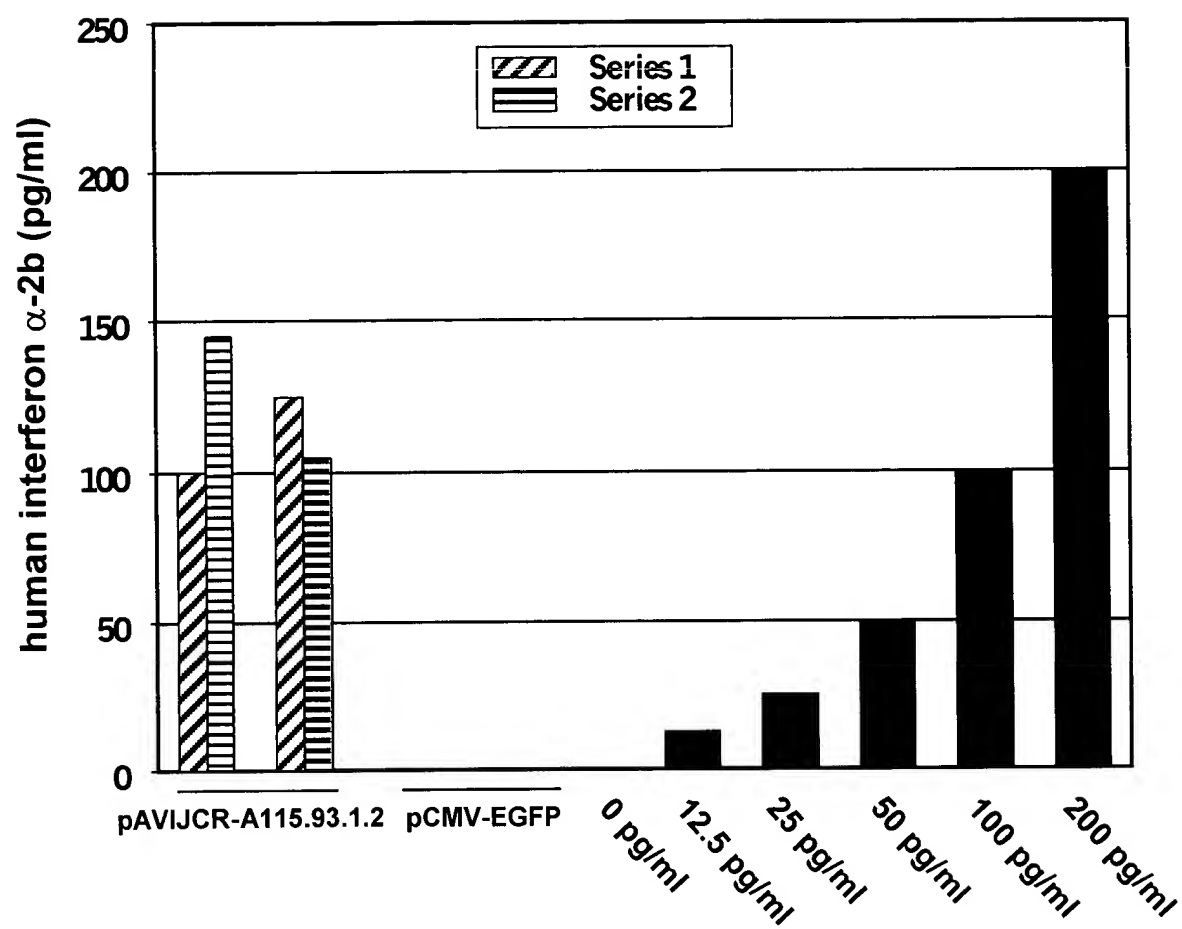


Fig. 7